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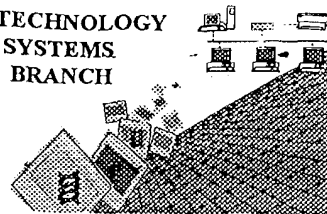# ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable
form:

Application Serial Number: __/o/672,764__

Source: __OIPE__

Date Processed by STIC: __10/8/2003__

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE
    APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A
    NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER
VERSION 4.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
    http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is
a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the
United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , EFS Submission
    User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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    U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
    2011 South Clark Place, Arlington, VA 22202
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Revised 10/08/2003

II

RAW SEQUENCE LISTING   DATE: 10/08/2003
PATENT APPLICATION: **US/10/672,764**   TIME: 13:25:17

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Output Set: N:\CRF4\10082003\J672764.raw

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10 <140> CURRENT APPLICATION NUMBER: US/10/672,764
10 <141> CURRENT FILING DATE: 2003-09-26
10 <160> NUMBER OF SEQ ID NOS: 68
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Corrected Diskette Needed

Does No Comply
Corrected Diskette Needed

ORED SEQUENCES

JR 1-2,6

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RAW SEQUENCE LISTING   DATE: 10/08/2003
PATENT APPLICATION: US/10/672,764   TIME: 13:25:19

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Output Set: N:\CRF4\10082003\J672764.raw

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PATENT APPLICATION: US/10/672,764   TIME: 13:25:19

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RAW SEQUENCE LISTING　　　　　　　DATE: 10/08/2003
PATENT APPLICATION: **US/10/672,764**　　TIME: 13:25:19

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20450 gctggaagca gatgatgaat tagagtcaag atggctgcat gggggtctcc ggcacccaca  9660
20451 gcaggtggca ggaagcaggt caccgcgaga gtctatttta ggaagcaaaa aaacacaatt  9720
20452 ggtaaattta tcacttctgg ttgtgaagag gtggttttgc ccaggcccag atctgaaagt  9780
20453 gctctactga gcaaaacaac acctggacaa tttgcgtttc taaaataagg cgaggctgac  9840
20454 cgaaactgaa aaggcttttt ttaactatct gaatttcatt tccaatctta gcttatcaac  9900
20455 tgctagtttg tgcaaacagc atatcaactt ctaaactgca ttcattttta aagtaagatg  9960
20456 tttaagaaat taaacagtct tagggagagt ttatgactgt attcaaaaag ttttttaaat 10020
20457 tagcttgtta tcccttcatg tgataattaa tctcaaatac tttttcgata cctcagagca 10080
20458 ttattttcat aatgactgtg ttcacaatct ttttaggtta actcgttttc tctttgtgat 10140
20459 taaggagaaa cactttgata ttctgataga gtggccttca ttttagtatt tttcaagacc 10200
20460 actttcaac tactcacttt aggataagtt ttaggtaaaa tgtgcatcat tatcctgaat 10260
20461 tatttcagtt aagcatgtta gttggtggca taagagaaaa ctcaatcaga tagtgctgaa 10320
20462 gacaggactg tggagacacc ttagaaggac agattctgtt ccgaatcacc gatgcggcgt 10380
20463 cagcaggact ggcctagcgg aggctctggg agggtggctg ccaggcccgg cctgggcttt 10440
20464 gggtctcccc ggactaccca gagctgggat gcgtggcttc tgctgccggg ccgactggct 10500
20465 gctcaggccc cagcccttgt taatggactt ggaggaatga ttccatgcca aagctttgca 10560
20466 aggctcgcag tgaccaggcg cccgacatgg taagagacag gcagccgccg ctgctgcatt 10620
20467 tgcttctctt aaaactttgt atttgacgtc ttatttccac tagaagggga actggtctta 10680
20468 attgcttgat gaagagcagg agactcattt atgtgagtct tttgagtgac cattgtctgg 10740
20469 gtcactccca tttaactttc cctaaagccc atttgaagga gaggtcgcac gagctgctcc 10800
20470 acaacctctg aatggggatg gcatgggtaa tgatgcttga aacatacca agccccactg 10860
20471 gcatcgccct tgtctaagtc attgactgta ggtcatcatc gcacccttga aagtagccca 10920
20472 tgccttccaa agcgatttat ggtaaatggc agaattttaa gtggcaaatt cagataaaat 10980
20473 gcatttcttg gttgtttcca atgatgactg ttatctagac cgcggtggag ctccaattcg 11040
20474 ccctatagtg agtcgtatta cgcgcgctca ctggccgtcg ttttacaacg tcgtgactgg 11100
```

RAW SEQUENCE LISTING   DATE: 10/08/2003
PATENT APPLICATION: US/10/672,764   TIME: 13:25:19

Input Set : C:\WINNT\Profiles\guest\Desktop\pto.ln.txt
Output Set: N:\CRF4\10082003\J672764.raw

```
20475 gaaaaccctg gcgttaccca acttaatcgc cttgcagcac atcccccttt cgccagctgg    11160
20476 cgtaatagcg aagaggcccg caccgatcgc ccttcccaac agttgcgcag cctgaatggc    11220
20477 gaatgggacg cgccctgtag cggcgcatta agcgcggcgg gtgtggtggt tacgcgcagc    11280
20478 gtgaccgcta cacttgccag cgccctagcg cccgctcctt tcgctttctt cccttccttt    11340
20479 ctcgccacgt tcgccggctt tccccgtcaa gctctaaatc gggggctccc tttagggttc    11400
20480 cgatttagtg ctttacggca cctcgacccc aaaaaacttg attagggtga tggttcacgt    11460
20481 agtgggccat cgccctgata gacggttttt cgccctttga cgttggagtc cacgttcttt    11520
20482 aatagtggac tcttgttcca aactggaaca acactcaacc ctatctcggt ctattctttt    11580
20483 gatttataag ggattttgcc gatttcggcc tattggttaa aaaatgagct gatttaacaa    11640
20484 aaatttaacg cgaattttaa caaaatatta acgcttacaa tttaggtggc acttttcggg    11700
20485 gaaatgtgcg cggaacccct atttgtttat ttttctaaat acattcaaat atgtatccgc    11760
20486 tcatgagaca ataaccctga taaatgcttc aataatattg aaaaaggaag agtatgagta    11820
20487 ttcaacattt ccgtgtcgcc cttattccct tttttgcggc attttgcctt cctgtttttg    11880
20488 ctcacccaga aacgctggtg aaagtaaaag atgctgaaga tcagttgggt gcacgagtgg    11940
20489 gttacatcga actggatctc aacagcggta agatccttga gagttttcgc cccgaagaac    12000
20490 gttttccaat gatgagcact tttaaagttc tgctatgtgg cgcggtatta tcccgtattg    12060
20491 acgccgggca agagcaactc ggtcgccgca tacactattc tcagaatgac ttggttgagt    12120
20492 actcaccagt cacagaaaag catcttacgg atggcatgac agtaagagaa ttatgcagtg    12180
20493 ctgccataac catgagtgat aacactgcgg ccaacttact tctgacaacg atcggaggac    12240
20494 cgaaggagct aaccgctttt ttgcacaaca tgggggatca tgtaactcgc cttgatcgtt    12300
20495 gggaaccgga gctgaatgaa gccataccaa acgacgagcg tgacaccacg atgcctgtag    12360
20496 caatggcaac aacgttgcgc aaactattaa ctggcgaact acttactcta gcttccggc     12420
20497 aacaattaat agactggatg gaggcggata aagttgcagg accacttctg cgctcggccc    12480
20498 ttccggctgg ctggtttatt gctgataaat ctggagccgg tgagcgtggg tctcgcggta    12540
20499 tcattgcagc actggggcca gatggtaagc cctcccgtat cgtagttatc tacacgacgg    12600
20500 ggagtcaggc aactatggat gaacgaaata gacagatcgc tgagataggt gcctcactga    12660
20501 ttaagcattg gtaactgtca gaccaagttt actcatatat actttagatt gatttaaaac    12720
20502 ttcattttta atttaaaagg atctaggtga agatcctttt tgataatctc atgaccaaaa    12780
20503 tcccttaacg tgagttttcg ttccactgag cgtcagaccc cgtagaaaag atcaaaggat    12840
20504 cttcttgaga tcctttttt ctgcgcgtaa tctgctgctt gcaaacaaaa aaaccaccgc     12900
20505 taccagcggt ggtttgtttg ccggatcaag agctaccaac tctttttccg aaggtaactg    12960
20506 gcttcagcag agcgcagata ccaaatactg tccttctagt gtagccgtag ttaggccacc    13020
20507 acttcaagaa ctctgtagca ccgcctacat acctcgctct gctaatcctg ttaccagtgg    13080
20508 ctgctgccag tggcgataag tcgtgtctta ccgggttgga ctcaagacga tagttaccgg    13140
20509 ataaggcgca gcggtcgggc tgaacggggg gttcgtgcac acagcccagc ttggagcgaa    13200
20510 cgacctacac cgaactgaga tacctacagc gtgagctatg agaaagcgcc acgcttcccg    13260
20511 aagggagaaa ggcggacagg tatccggtaa gcggcagggt cggaacagga gagcgcacga    13320
20512 gggagcttcc agggggaaac gcctggtatc tttatagtcc tgtcgggttt cgccacctct    13380
20513 gacttgagcg tcgatttttg tgatgctcgt caggggggcg gagcctatgg aaaaacgcca    13440
20514 gcaacgcggc ctttttacgg ttcctggcct tttgctggcc ttttgctcac atgttctttc    13500
20515 ctgcgttatc ccctgattct gtggataacc gtattaccgc ctttgagtga gctgataccg    13560
20516 ctcgccgcag ccgaacgacc gagcgcagcg agtcagtgag cgaggaagcg gaagagcgcc    13620
20517 caatacgcaa accgcctctc cccgcgcgtt ggccgattca ttaatgcagc tggcacgaca    13680
20518 ggtttcccga ctggaaagcg ggcagtgagc gcaacgcaat taatgtgagt tagctcactc    13740
20519 attaggcacc ccaggcttta cactttatgc ttccggctcg tatgttgtgt ggaattgtga    13800
20520 gcggataaca atttcacaca ggaaacagct atgaccatga ttacgccaag cgcgcaatta    13860
20521 accctcacta aagggaacaa aagct                                          13886
```

> 20523 ⟨135⟩ *delete*

FYI

Use of n and/or Xaa has been detected in the Sequence Listing.
Review the Sequence Listing to insure a corresponding
explanation is presented in the <220> to <223> fields of
each sequence using n or Xaa.

Please: ensure all nucleotides are in lower-case letters when Sequence Listing is in new Sequence Rules format.

VERIFICATION SUMMARY   DATE: 10/08/2003
PATENT APPLICATION: **US/10/672,764**   TIME: 13:25:20

Input Set : **C:\WINNT\Profiles\guest\Desktop\pto.ln.txt**
Output Set: **N:\CRF4\10082003\J672764.raw**

```
0 M:270 C: Current Application Number differs, Replaced Current Application No
0 M:271 C: Current Filing Date differs, Replaced Current Filing Date
52 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:
7513 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
7517 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:52
7523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:300
41 Repeated in SeqNo=52
7681 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
7685 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:53
7691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:300
41 Repeated in SeqNo=53
7864 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
7868 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:54
7918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:2940
41 Repeated in SeqNo=54
8502 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
8506 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:55
8556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:2940
41 Repeated in SeqNo=55
9153 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
9157 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:56
9207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:2940
41 Repeated in SeqNo=56
9804 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
9808 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:57
9809 M:112 C: (48) String data converted to lower case,
9819 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
9823 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:58
9824 M:112 C: (48) String data converted to lower case,
9834 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
9838 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:59
9839 M:112 C: (48) String data converted to lower case,
9849 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
9853 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:60
9854 M:112 C: (48) String data converted to lower case,
9864 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
9868 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:61
9869 M:112 C: (48) String data converted to lower case,
9879 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
9883 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:62
9884 M:254 E: No. of Bases conflict, LENGTH:Input:27 Counted:26 SEQ:62
12 Repeated in SeqNo=62
9884 M:252 E: No. of Seq. differs, <211> LENGTH:Input:27 Found:26 SEQ:62
0126 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
0130 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:65
0131 M:112 C: (48) String data converted to lower case,
0141 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
0145 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:66
```

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/672,764**

DATE: 10/08/2003
TIME: 13:25:20

Input Set : **C:\WINNT\Profiles\guest\Desktop\pto.ln.txt**
Output Set: **N:\CRF4\10082003\J672764.raw**

0146 M:112 C: (48) String data converted to lower case,
12 Repeated in SeqNo=66
0523 M:254 E: No. of Bases conflict, this line has no nucleotides.